101 IVRGTQLFED NYALAVLDNG DPLNNTTPVT GASPGGLREL QLRSLTETLK GGVLIQRNPQ LCYQDTILWK DIFHKNNQLA LTLIDTNRSR ACHPCSPMCK 401 ETLEEITGYL YISAWPDSLP DLSVFQNLQV IRGRILHNGA YSLTLQGLGI SWLGLRSLRE LGSGLALIHH NTHLCFVHTV PWDQLFRNPH QALLHTANRP 301 YNYLSTDVGS CTLVCPLHNQ EVTAEDGTQR CEKCSKPCAR VCYGLGMEHL REVRAVTSAN IQEFAGCKKI FGSLAFLPES FDGDPASNTA PLQPEQLQVF 201 GSRCWGESSE DCQSLTRTVC AGGCARCKGP LPTDCCHEQC AAGCTGPKHS DCLACLHFNH SGICELHCPA LVTYNTDTFE SMPNPEGRYT FGASCVTACP 601 PSGVKPDLSY MPIWKFPDEE GACQPCPINC THSCVDLDDK GCPAE (SEG 10 NO: 13) 501 EDECVGEGLA CHQLCARGHC WGPGPTQCVN CSQFLRGQEC VEECRVLQGL PREYVNARHC LPCHPECQPQ NGSVTCFGPE ADQCVACAHY KDPPFCVARC 1 MELAALCRWG LLLALLPPGA ASTQVCTGTD MKLRLPASPE THLDMLRHLY QGCQVVQGNL ELTYLPTNAS LSFLQDIQEV QGYVLIAHNQ VRQVPLQRLR

ig. 1A

(31 residues) 7C2 aa 22-53 (31 residues) 7F3 aa 22-53 (562 residues) 2C4 aa 22-584 (562 residues) 7D3 aa 22-584 aa 512-625 (113 residues) 3E8 4D5 aa 529-625 (96 residues) 2H11 aa 529-645 (116 residues) (58 residues) 3H4 aa 541-599

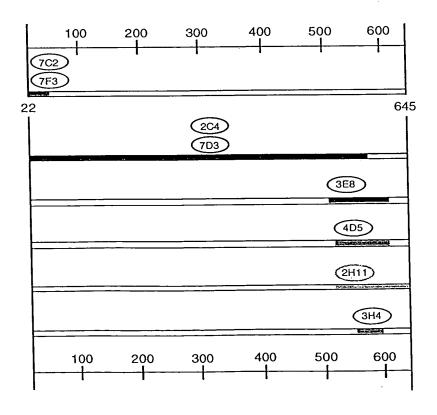


Fig. 1B

CTECHOLD DOESDE

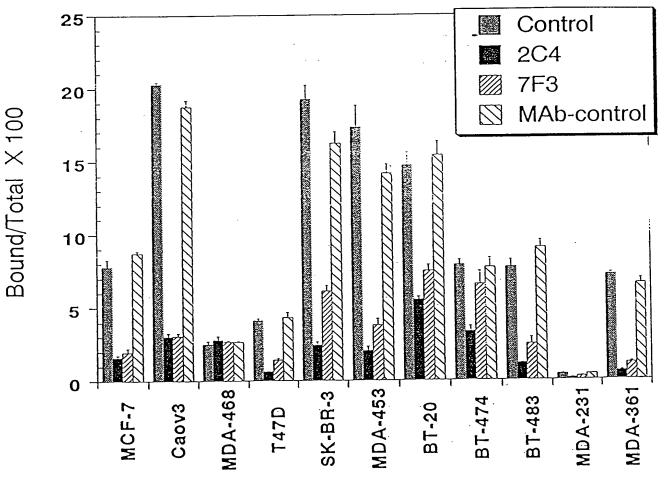
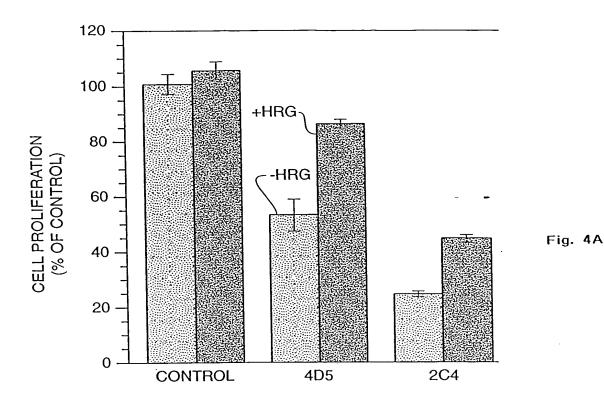


Fig. 3



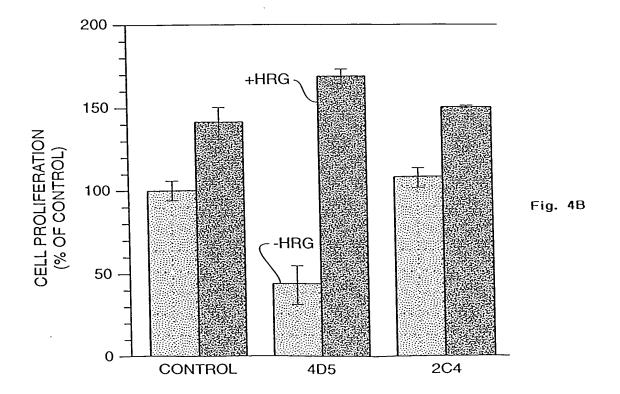


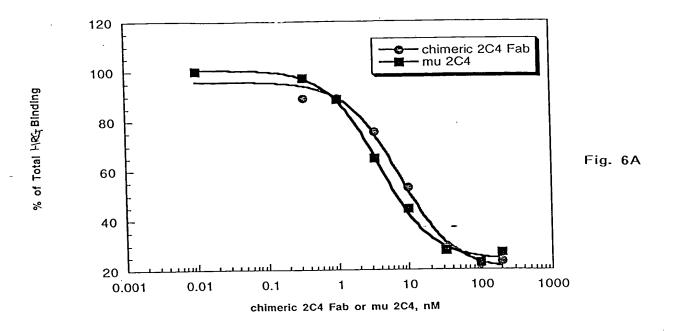
Fig. 5A

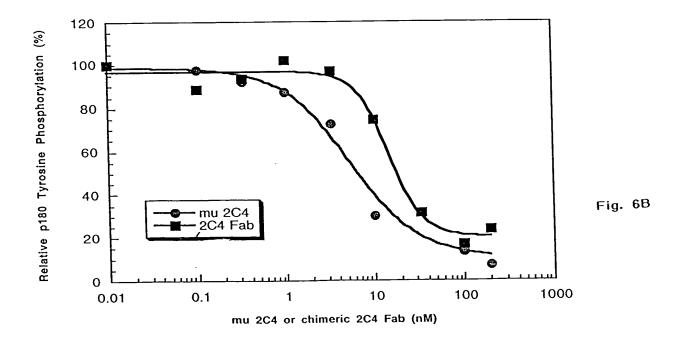
MCF7 Low/Normal HER2

Fig. 5B

SK-BR-3 High HER2

IP: αHER2 WB: αHER3





hum III

```
Fig. 7A: Variable Light
                           20
                                        30
                                                    40
                 10
         DTVMTOSHKIMSTSVGDRVSITC [KASQDVSIGVA] WYQQRP
2C4
                ****
         DIQMTQSPSSLSASVGDRVTITC [KASQDVSIGVA] WYQQKP
574
         DIQMTQSPSSLSASVGDRVTITC [RASQSISNYLA] WYQQKP
hum KI
                                                    80
                   50
                                60
                                          70
         GQSPKLLIY [SASYRYT] GVPDRFTGSGSGTDFTFTISSVQA
2C4
         GKAPKLLIY [SASYRYT] GVPSRFSGSGSGTDFTLTISSLQP
574
         GKAPKLLIY [AASSLES] GVPSRFSGSGSGTDFTLTISSLQP
hum KI
                               100
                    90
         EDLAVYYC [QQYYIYPYT] FGGGTKLEIK (SEQ ID NO:1)
2C4
         EDFATYYC [QQYYIYPYT] FGQGTKVEIK (SEQ ID NO:3)
574
         EDFATYYC [QQYNSLPWT] FGQGTKVEIK (SEQ ID NO:5)
hum \kappa I
Fig. 7B: Variable Heavy
                            20
                                         30
                  10
          EVOLOOSGPELVKPGTSVKISCKAS [GFTFTDYTMD] WVKQS
2C4
                 ** * * ***
          EVOLVESGGGLVQPGGSLRLSCAAS [GFTFTDYTMD] WVRQA
574
          EVQLVESGGGLVQPGGSLRLSCAAS [GFTFSSYAMS] WVRQA
hum III
                                            70
                    50
                                60
                       а
          HGKSLEWIG [DVNPNSGGSIYNQRFKG] KASLTVDRSSRIVYM
 2C4
          PGKGLEWVA [DVNPNSGGSIYNQRFKG] RFTLSVDRSKNTLYL
 574
                                            * * *
                     ****
          PGKGLEWVA [VISGDGGSTYYADSVKG] RFTISRDNSKNTLYL
 hum III
                                               110
            abc
                     90
                                 100ab
          ELRSLTFEDTAVYYCAR [NLGPSFYFDY] WGQGTTLTVSS (SEQ ID NO:2)
 2C4
                                               * *
          QMNSLRAEDTAVYYCAR [NLGPSFYFDY] WGQGTLVTVSS (SEQ ID NO:4)
 574
          QMNSLRAEDTAVYYCAR [GRVGYSLYDY] WGQGTLVTVSS (SEQ ID NO:6)
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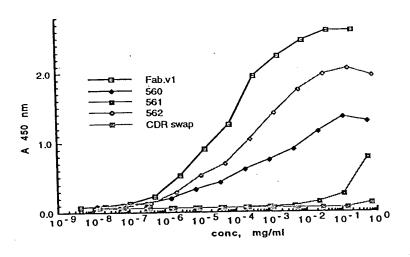


Fig. 8A

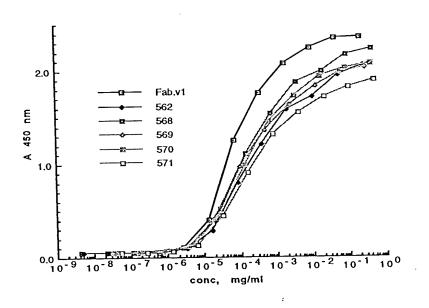
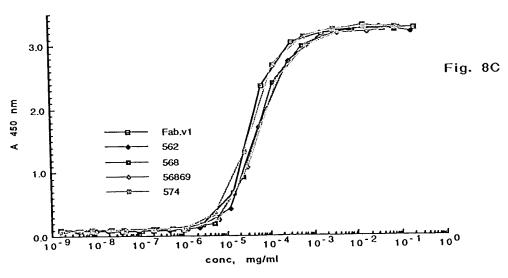


Fig. 8B



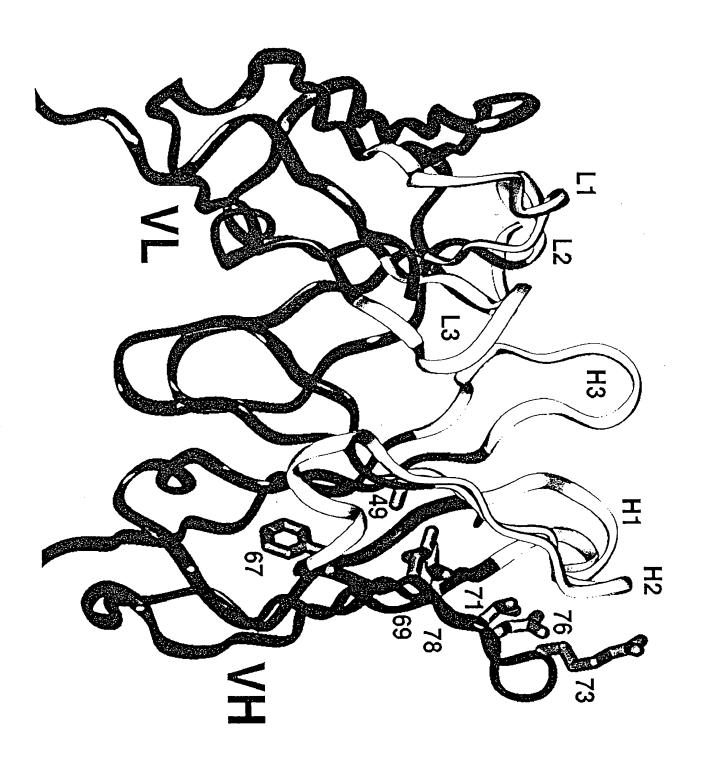
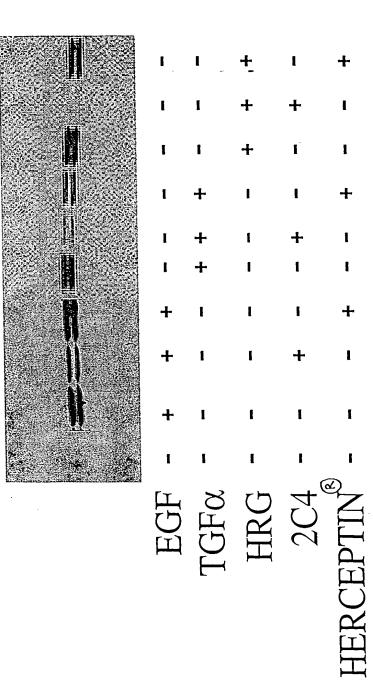
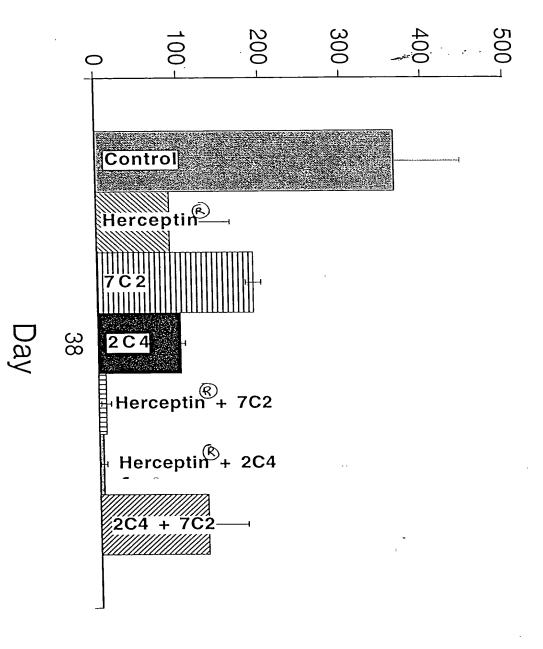
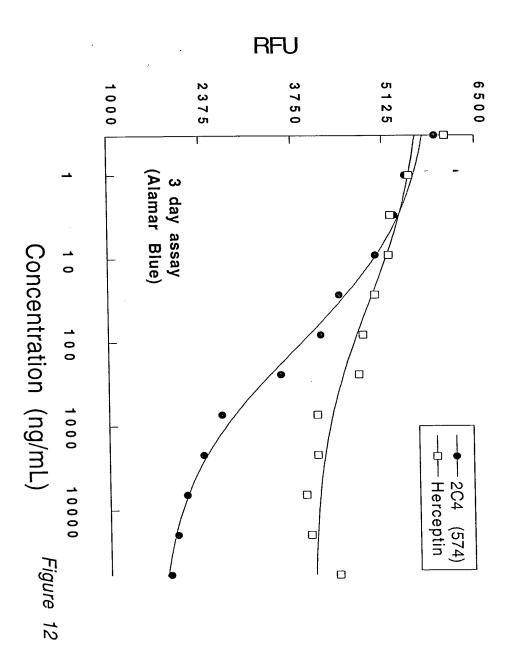




Fig. 10







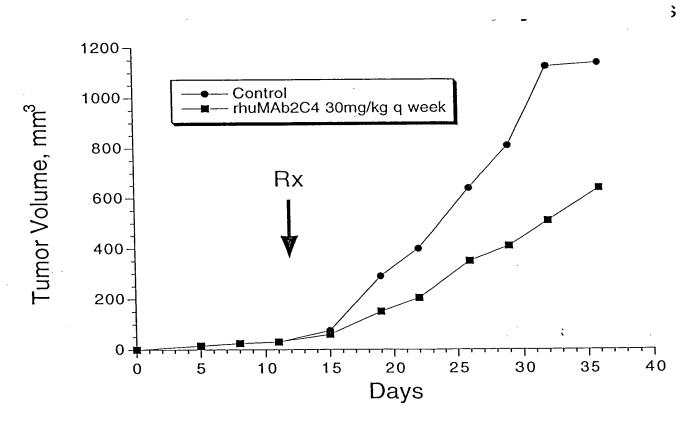


Fig. 13